

CN0204VIS-NIR-B

Basic series | Beam profiler

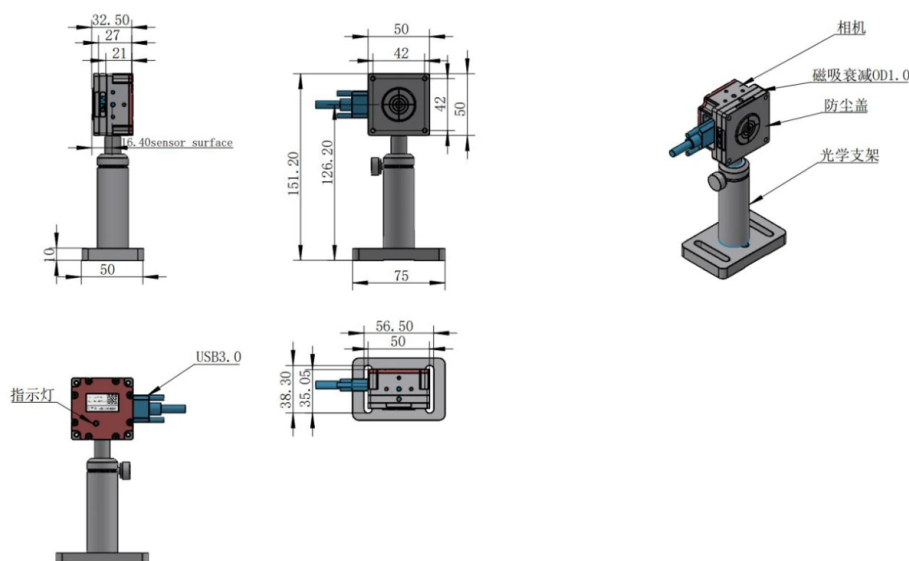
CN0204VIS-NIR-B basic series beam profiler. Spectral range: 340-1100 nm, 1100-1350 nm. Beam-spot range: 22 μm -4.3 mm. Check power, attenuation and interface conditions for the selected configuration.



Model specifications	Specification
Model	CN0204VIS-NIR-B
Detection Wavelength Range	340-1100 nm, 1100-1350 nm
Sensor Size	5.7*4.3
Resolution	2592*1944
Dynamic Range	60 dB
Minimum Sinking Distance	6 mm
Sensor Pixel Size	2.2 μm
Exposure Time	0.05 ms-500 ms
Shutter	Rolling Shutter
Beam Spot Detection Range [1]	22 μm -4.3 mm
Minimum Effective Response [2]	0.566 $\mu\text{W}/\text{cm}^2$ @1064 nm 0.0367 $\mu\text{W}/\text{cm}^2$ @633 nm
Maximum Power Density (Damage Threshold)	50 W/cm^2 (with attenuation)
Maximum Energy Density (Damage Threshold)	1 J/cm^2 (with attenuation)
Maximum Effective Range	10 W/cm^2
Maximum Power	1 W
Attenuator	OD0.5/OD1/OD2/OD3(340-1100 nm) OD1/OD2/OD3(1100-1350 nm)
Interface	USB3.0
Frame Rate (Processing)	5-10 fps [3]
External Trigger	Unsupported
Structure Type	Side-mounted interface with C-mount thread compatibility
Dimensions	Refer to structural diagram (mechanical drawing)
Operating Environment	Temperature<0-35°C [4] , relative humidity<60%
Operational Conditions	Software environment: Windows 10/11,64 bit, pre installed with MS Office or WPS, Hardware configuration:≥8GB memory, CPU clock speed ≥2.5G, core≥4, recommended i5 or above equivalent models, optimal display resolution 1920 * 1080
Weight	<500 g

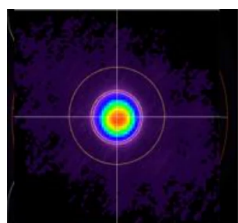
CN0204VIS-NIR-B

Mechanical outline and measurement conditions

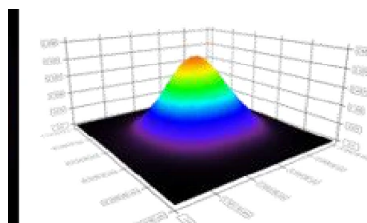


Mechanical outline | Dimensions in mm

Beam-analysis examples



Two-dimensional intensity map



Three-dimensional beam profile

Illustrative software output, not a test result for this unit. Available functions depend on the selected hardware and software.

Measurement conditions and configuration notes

[1] When measuring large laser beams from lasers with longer coherence lengths, this camera may exhibit interference fringe patterns. [2] The described parameter indicates the lowest effective response when the exposure time is set to 100 milliseconds. [3] This parameter specifies the frame rate at 5-megapixel (5MP) resolution. [4] It is the working temperature, if it involves directivity test, the temperature should be controlled at 15-25C.

Read total power, power density and pulse-energy-density limits with the specified attenuation, wavelength, spot size, cooling and detection time. A maximum power figure does not apply to every beam configuration.

Precisometer | info@precisometer.com | Product details and enquiry

Specification review: 24 October 2026. Confirm the selected optical, attenuation and cooling configuration with your quotation. Include wavelength, spot size, pulse conditions, power, cooling and required analysis.